

08/20/03
16076 U.S. PTO

Patent

22154 U.S. PTO
10/644229
08/20/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: QIU)
Serial No.: Not yet assigned) Examiner: Not yet assigned
Filing Date: Filed herewith) Group Art Unit: Not yet assigned
For: METHODS AND APPARATUS FOR) Docket No.: P16581
CHARACTERIZING SUBSCRIBER)
LOOP BASED ON ANALYSIS OF DSL)
HANDSHAKING SIGNALS AND FOR)
OPTIMIZATION OF DSL OPERATION)

MS PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)

Sir:

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled: **METHODS AND APPARATUS FOR CHARACTERIZING SUBSCRIBER LOOP BASED ON ANALYSIS OF DSL HANDSHAKING SIGNALS AND FOR OPTIMIZATION OF DSL OPERATION**

and invented by: **QIU**

Enclosed are:

1. Filing Fee as calculated and transmitted as described below
2. Specification having 23 pages and including the following:
 - a. Descriptive Title of the Invention

- b. Cross references to Related Applications (*if applicable*)
- c. Statement Regarding Federally-sponsored Research/Development
- d. Reference to Microfiche Appendix (*if applicable*)
- e. Background of the Invention
- f. Brief Summary of the Invention
- g. Brief Description of the Drawings (*if drawings filed*)
- h. Detailed Description
- i. Claim(s) as Classified Below
- j. Abstract of the Disclosure

3. Drawing(s) (*when necessary as prescribed by 35 USC 113*)

- a. Formal Number of Sheets 10
- b. Informal Number of Sheets

4. Oath or Declaration

- a. Newly executed (*original or copy*) Unexecuted
- b. Copy from a prior application (37 CFR 1.63(d))
- c. With Power of Attorney Without Power of Attorney
- d. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the Prior Application, see 37. CFR 1.63(d)(2) and 1.33(b).

5. Incorporation By Reference (*usable if Box 4b is checked*)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. Assignment Papers (*cover sheet & documents(s)*)

7. 37 CFR 3.73(B) Statement (*when there is an assignee*)

8. English Translation Document (*if applicable*)

9. Information Disclosure Statement/PTO-1449 Copies of IDS Citations

10. Preliminary Amendment

11. Acknowledgement Postcard

12. Mailed Via

- First Class Express Mail (*Specify Label No.*) **EV334067852US**

13. Certified Copy of Priority Document(s) (*if foreign priority is claimed*)

14. Request and Certification under 35 USC 122(b)(2)(B)(i) (*attach PTO/SB/35*)

15. Additional Enclosures: Credit Card Payment Form

FEE CALCULATION

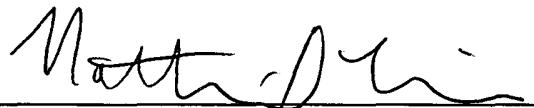
For	No. Filed	No. Allowed	No. Extra	Rate	Fee
Total Claims	47	- 20	27	\$ 18.00	\$ 486.00
Indep. Claims	10	- 3	7	\$ 84.00	\$ 588.00
Multiple Dependent Claims (If applicable, please add \$ 280.00)					\$ 0.00
BASIC FEE					\$ 750.00
OTHER FEE (specify purpose):					\$ 0.00
TOTAL FILING FEE					\$1,824.00

Credit Card Authorization for **\$1,824.00** and **\$40.00** are enclosed.

The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-1852 as described below. A duplicate copy of this sheet is enclosed.

- Credit any overpayment.
- Charge any additional fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,



August 20, 2003

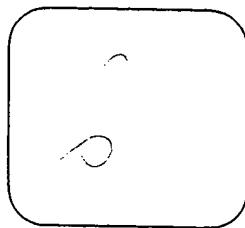
Date

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RECEIVED DATE 08-21-03

TOTAL COUNT 20 non-fee

BATCH No.



DESIGN

PROV

UTILITY

SERIAL No. RANGE

FROM 10.644.216 TO 10.644.235

PRE-DOC PREP 10.644.216 DATE 08-21-03

RAM 10.644.216 DATE 08-21-03

PRE-INDEX _____ DATE _____

INITIALIZATION _____ DATE _____

DATA ENTRY _____ DATE _____

QUALITY ASSURANCE _____ DATE _____

SCAN _____ DATE _____

IMAGE Q. A. _____ DATE _____

BOXING _____ DATE _____